

DERWENT- 2004-452403

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WEEK:

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TITLE: Pneumatic spring arrangement for a vehicle comprises an air chamber of a second pneumatic spring with a second inner pressure arranged within the air chamber of a first pneumatic spring with a first inner pressure

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PRIORITY-DATA: 2002DE-1057855 (December 11, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 10353877	A1 June 24, 2004	N/A	000	F16F 009/05
EP 1429045	A2 June 16, 2004	G	005	F16F 009/05

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STATES: LI LT LU LV MC MK NL PT RO SE SI SK TR

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
DE 10353877A1	N/A	2003DE-1053877	November 18, 2003
EP 1429045A2	N/A	2003EP-0026359	November 18, 2003

INT-CL (IPC): B60G011/27, F16F009/05

ABSTRACTED-PUB-NO: EP 1429045A

BASIC-ABSTRACT:

NOVELTY - Pneumatic spring arrangement (1) for a vehicle comprises a first and a second pneumatic spring (2, 3) arranged in parallel. Each pneumatic spring consists of a bellows (4, 5) made of elastomer material and provided especially with an embedded strength support. The bellows form a tube (10, 11) surrounding an air chamber (12, 13). Each pneumatic spring also consists of a cover (6, 7) with a connecting region for the end of the bellows, and a roller piston (8, 9) with a connecting region for the other end of the bellows and a free rolling surface for the tube. The air chamber (13) of the second pneumatic spring (3) with a second inner pressure (p2) is arranged within the air chamber (12) of the first pneumatic spring (2) with a first inner pressure (p1). The two air chambers communicate via an overflow line (14) and a pressure system so that the second inner pressure is greater than the first inner pressure.

DETAILED DESCRIPTION - Preferred Features: The pressure system is a compressor (15) integrated in the overflow line. The compressor is combined with a valve block (27).

USE - For a vehicle.

ADVANTAGE - The pneumatic spring arrangement is suitable for use in general vehicle construction (cars, utility vehicles, rail vehicles) and under the production of greater forces within smaller construction spaces.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of a pneumatic spring arrangement with a compressor.

pneumatic spring arrangement 1

pneumatic spring 2, 3

bellows 4, 5

cover 6, 7

roller piston 8, 9 .

tube 10, 11

air chamber 12, 13

overflow line 14

compressor 15

valve block 27

inner pressure p1 , p2

CHOSEN- Dwg.1/2

DRAWING:

TITLE- PNEUMATIC SPRING ARRANGE VEHICLE COMPRISE AIR CHAMBER

TERMS: SECOND PNEUMATIC SPRING SECOND INNER PRESSURE ARRANGE AIR
CHAMBER FIRST PNEUMATIC SPRING FIRST INNER PRESSURE

DERWENT-CLASS: Q12 Q63

SECONDARY-ACC-NO:

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